

TECHNICAL DATA SHEET

REAFREE® 6877-T

Powder Resins / Saturated Carboxylated Polyester / Epoxy

PRODUCT APPLICATION DETAILS

Saturated carboxylated polyester suitable for the formulation of decorative and protective thermosetting tribochargeable powders in combination with epoxy resins. Reactive type.

SALES SPECIFICATIONS

	CHARACTERISTICS	METHODS
Acid value	70-80 mg KOH/g	ASTM D-1639
Viscosity (Cone and plate - 165°C)	7-16 Pa.s	DIN 53229
Color (50%)	3 max Gardner	ASTM D-1544

OTHER CHARACTERISTICS¹

	CHARACTERISTICS	METHODS
Appearance	Pale granules	
Glass transition temperature (T _g)	approx 55 °C	DSC

¹The data provided for these properties are typical values, intended only as guides, and should not be construed as sales specifications

CURING CONDITIONS

10 minutes at 170°C (object temperature)

RECOMMENDED MIXING RATIO

REAFREE® 6877-T / Epoxy: 50/50

MARKET

Coatings & Inks

- Industrial Coating
 - General Industry

PERFORMANCE BENEFITS

- Good flow for high reactive type.
- High salt spray resistance.
- Good mechanical properties.
- Good recoatability.
- Low thickness film coatings.
- Tribochargeable.

REAFREE® 6877-T

FORMULATION GUIDELINES

STARTING FORMULATION	
REAFREE® 6877-T	328
Titanium Dioxide ⁽¹⁾	331
Epoxy resins ⁽²⁾	328
Flow modifier ⁽³⁾	10
Benzoin	3

⁽¹⁾ Kronos® 2160

⁽²⁾ Araldite® GT-7004 (Huntsman) DER™ 663 UE (Dow Chemical) Epikote® 3003 (Resolution)

⁽³⁾ Byk® 360 P (Byk Chemie)

APPLICATION / EXTRUSION CONDITIONS

CHARACTERISTICS	
Extruder	BUSS PCS-30
Spraying gun	GEMA PG 1-B
Torque	40 %
Extrusion speed	200 rpm
Application voltage	60-80 kV
Test substrate (Degreased steel)	1 mm
Extrusion temperature	80 °C

COATING PROPERTIES

	CHARACTERISTICS	METHODS
Film thickness	60-80 microns	
Gloss (60°)	Over 90 %	
Cupping test	Over 8 mm	DIN 53156
Direct impact	Over 80 kg.cm	ASTM D-2794
Reverse impact	Over 80 kg.cm	ASTM D-2794
Conical mandrel	100 %	ASTM D-522
Adhesion	Gt0	DIN 53151

PRODUCT SAFETY

Please refer to the corresponding Safety Data Sheet.

DELIVERY FORM

Granules. White opaque polyethylene bags of 25 Kg. One Ton pallet shrink – wrapped.

STORAGE AND HANDLING

The resin in its original unopened bags is stable for more than three years, stored in a dry place at temperature below 30°C. Avoid direct sunlight.

Arkema Coating Resins
410 Gregson Dr.
Cary, NC 27511 – USA
T +1 919 469 6700

Arkema Química, S.A.U.
Ctra. Olzinelles, s/n
E-08470 Sant Celoni (BCN)
Spain
T +34 938 674 000

Arkema Chemical India Private Ltd.
D-43, Trans Thane Creek
MIDC Industrial Area
400706 Mumbai - India
T +91 22 67377122

Headquarters: Arkema France
420, rue d'Estienne d'Orves
92705 Colombes Cedex
France
T +33 (0)1 49 00 80 80

Disclaimer - Please consult Arkema's disclaimer regarding the use of Arkema's products on <https://www.arkema.com/global/en/products/product-safety/disclaimer/> which is incorporated herein by reference and made a part hereof.

Arkema France, a French société anonyme registered at the Trade and Companies Register of Nanterre under the number 319 632 790

arkema.com

ARKEMA